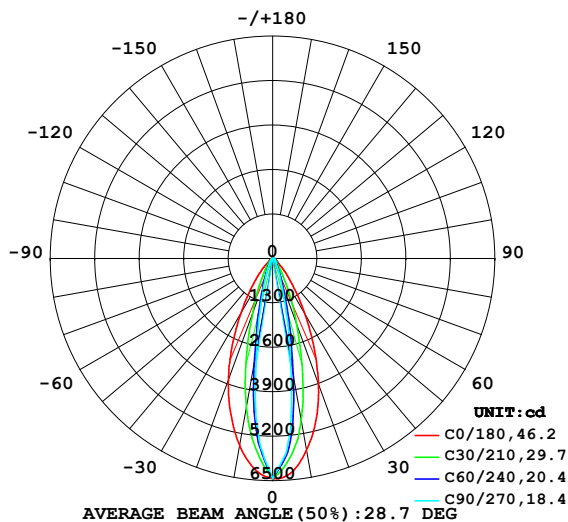


LUMINAIRE PHOTOMETRIC TEST REPORT

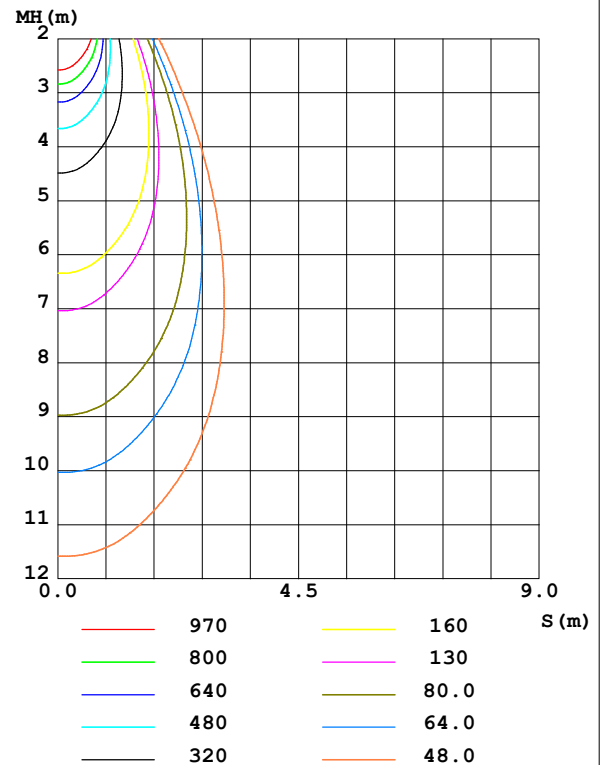
NAME: BL7069-C30-3-2050-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 77.13 lm/W
MODEL		Imax (cd)	6441	S/MH (C0/180)		0.72
NOMINAL POWER(W)	28	LOR (%)	54.0	S/MH (C90/270)		0.31
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	2159.6	η UP,DN (C0-180)		0.0,28.0
NOMINAL FLUX(lm)	4000	CIE CLASS	DIRECT	η UP,DN (C180-360)		0.0,26.0
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM		0.00
TEST VOLTAGE (V)	220.0	η down (%)	54.0	CIBSE SHR MAX		0.30

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:ZT
Test Date:2024-01-20

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:10.722m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	5699	4127	2993	4165	5555	3727	2647	3925	0- 10	484.7	484.7	22.4, 12.1
20	3924	1277	693.3	1313	3794	1085	615.8	1215	10- 20	742.1	1227	56.8, 30.7
30	1915	395.2	228.6	406.1	1885	338.7	202.2	370.9	20- 30	500.9	1728	80, 43.2
40	705.2	139.3	96.80	141.9	687.5	118.3	86.24	127.1	30- 40	250.3	1978	91.6, 49.4
50	207.5	58.60	43.80	58.44	167.7	47.20	38.24	53.88	40- 50	108.5	2087	96.6, 52.2
60	89.67	27.35	20.41	26.10	70.00	20.63	15.42	21.93	50- 60	43.27	2130	98.6, 53.2
70	37.93	10.60	10.24	10.01	31.66	5.708	5.672	7.169	60- 70	20.05	2150	99.5, 53.7
80	7.165	4.843	5.095	5.131	11.73	1.866	1.769	2.299	70- 80	7.172	2157	99.9, 53.9
90	3.497	0	0	0	4.104	0	0	0	80- 90	2.604	2160	100, 54
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 2044.3 lm

%lum = 94.7%

%lamp = 51.1%

Conical surface Flux(120deg): 2129.8 lm

%lum = 98.6%

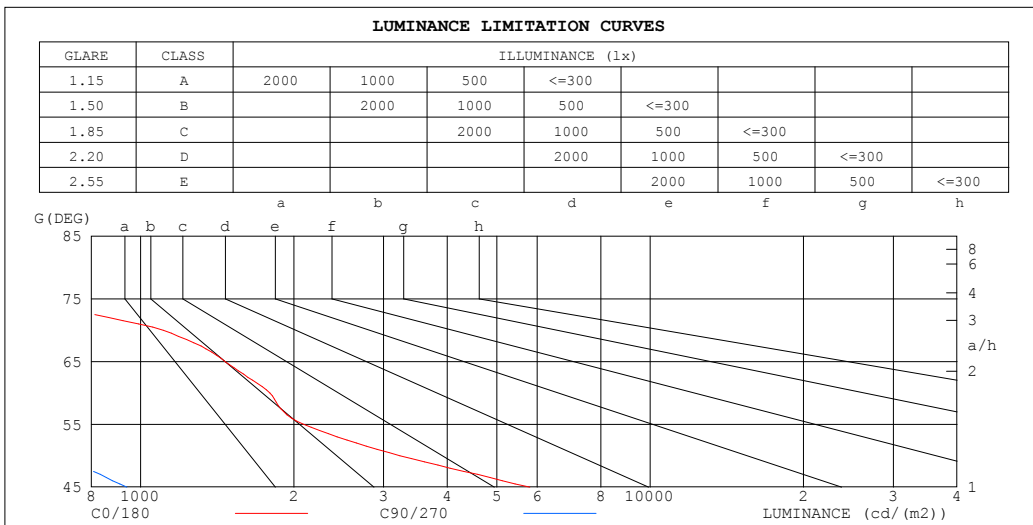
%lamp = 53.2%

H(β) Range:-90 - 90DEG
 H(β) Interval: 0.5DEG
 Test Speed: MEDIUM
 Temperature:25.3°C
 Operators:ZT
 Test Date:2024-01-20

V(B) Range:-85 - 85DEG
 V(B) Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
 Humidity:65.0%
 Test Distance:10.722m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

NAME: BL7069-C30-3-2050-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	568	241
80	413	293
75	588	277
70	1109	300
65	1466	346
60	1793	408
55	2091	521
50	3228	681
45	5810	940

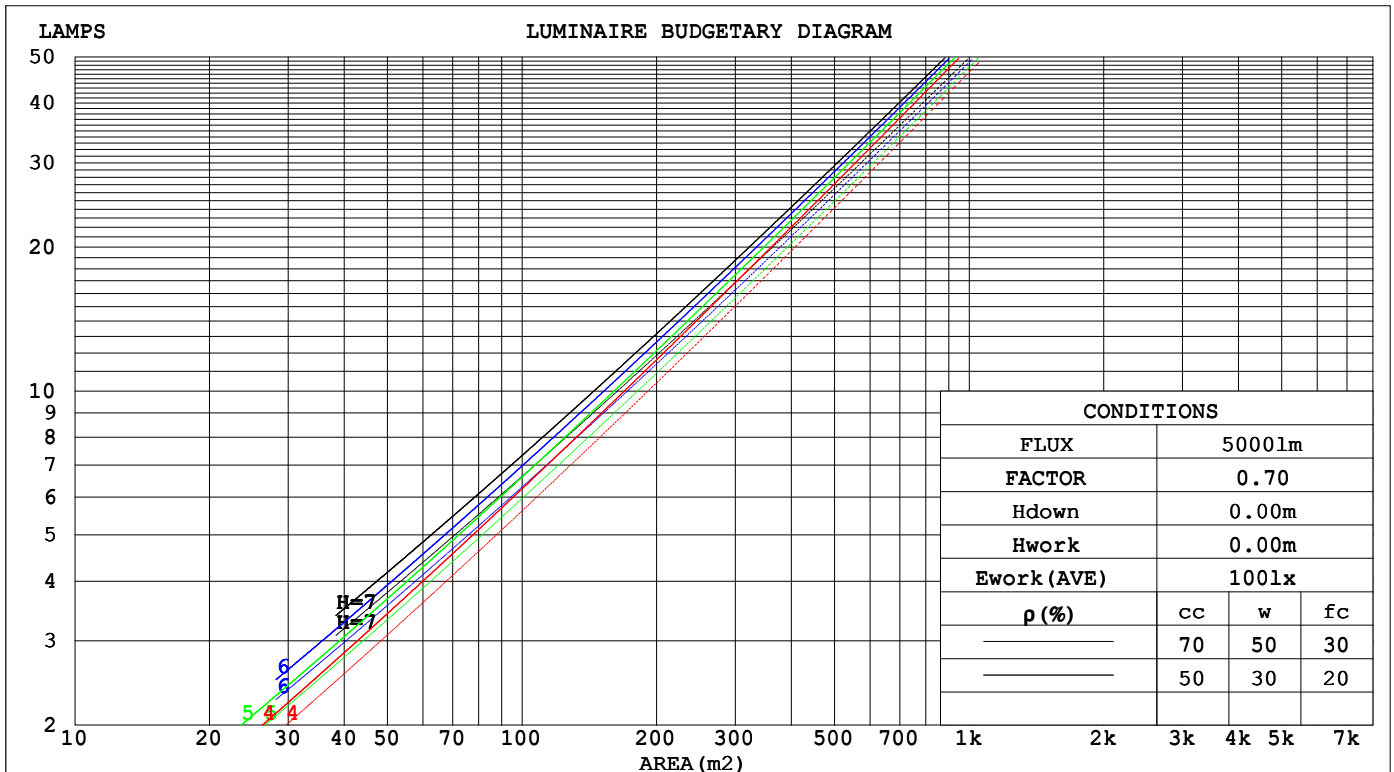
H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
 Test Speed: MEDIUM
 Temperature:25.3℃
 Operators:ZT
 Test Date:2024-01-20

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
 Humidity:65.0%
 Test Distance:10.722m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: BL7069-C30-3-2050-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0														
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0														
ρfc	20%			20%			20%			20%			20%			0														
RCR	RCR:Room Cavity Ratio															Coefficients of Utilization(CU)														
0.0	.64	.64	.64	.63	.63	.63	.60	.60	.60	.57	.57	.57	.55	.55	.55	.54														
1.0	.60	.59	.58	.59	.58	.57	.57	.56	.55	.55	.54	.53	.53	.52	.52	.51														
2.0	.56	.54	.53	.56	.54	.52	.54	.52	.51	.52	.51	.50	.51	.50	.49	.48														
3.0	.53	.51	.49	.52	.50	.48	.51	.49	.48	.50	.48	.47	.49	.47	.46	.45														
4.0	.50	.48	.46	.50	.47	.45	.48	.46	.45	.47	.46	.44	.46	.45	.44	.43														
5.0	.48	.45	.43	.47	.45	.43	.46	.44	.42	.45	.43	.42	.45	.43	.41	.41														
6.0	.45	.42	.40	.45	.42	.40	.44	.42	.40	.43	.41	.40	.43	.41	.39	.39														
7.0	.43	.40	.38	.43	.40	.38	.42	.40	.38	.42	.39	.38	.41	.39	.38	.37														
8.0	.41	.38	.36	.41	.38	.36	.40	.38	.36	.40	.38	.36	.39	.37	.36	.35														
9.0	.40	.37	.35	.39	.37	.35	.39	.36	.35	.38	.36	.35	.38	.36	.34	.34														
10.0	.38	.35	.33	.38	.35	.33	.37	.35	.33	.37	.35	.33	.37	.35	.33	.32														



H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:ZT
Test Date:2024-01-20

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:10.722m [K=1.0000]
Remarks:

WEC AND CCEC

NAME: BL7069-C30-3-2050-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0														
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0														
pfc	20%			20%			20%			20%			20%			0														
RCR	RCR:Room Cavity Ratio															Wall Exitance Coefficients (WEC)														
0.0																														
1.0	.089	.051	.016	.086	.049	.016	.079	.045	.014	.073	.042	.013	.067	.039	.013															
2.0	.085	.046	.014	.082	.045	.014	.076	.042	.013	.071	.040	.012	.066	.037	.012															
3.0	.080	.042	.013	.077	.041	.012	.072	.039	.012	.068	.037	.011	.064	.035	.011															
4.0	.075	.039	.012	.073	.038	.011	.069	.037	.011	.065	.035	.011	.062	.034	.010															
5.0	.071	.036	.011	.069	.036	.010	.066	.034	.010	.063	.033	.010	.060	.032	.010															
6.0	.068	.034	.010	.066	.033	.010	.063	.032	.009	.060	.031	.009	.057	.030	.009															
7.0	.064	.032	.009	.063	.031	.009	.060	.030	.009	.058	.030	.009	.055	.029	.008															
8.0	.061	.030	.008	.060	.030	.008	.058	.029	.008	.055	.028	.008	.053	.027	.008															
9.0	.059	.028	.008	.058	.028	.008	.055	.027	.008	.053	.027	.008	.051	.026	.008															
10.0	.056	.027	.007	.055	.027	.007	.053	.026	.007	.051	.026	.007	.050	.025	.007															

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Ceiling Cavity Exitance Coefficients (CCEC)															
0.0	.103	.103	.103	.088	.088	.088	.060	.060	.060	.034	.034	.034	.011	.011	.011	
1.0	.092	.085	.079	.079	.073	.068	.054	.050	.047	.031	.029	.027	.010	.009	.009	
2.0	.083	.072	.062	.071	.062	.053	.049	.043	.037	.028	.025	.022	.009	.008	.007	
3.0	.076	.061	.049	.065	.053	.043	.045	.037	.030	.026	.021	.018	.008	.007	.006	
4.0	.070	.053	.040	.060	.046	.035	.041	.032	.025	.024	.019	.015	.008	.006	.005	
5.0	.065	.047	.033	.056	.040	.029	.038	.028	.020	.022	.017	.012	.007	.005	.004	
6.0	.061	.042	.028	.052	.036	.024	.036	.025	.017	.021	.015	.010	.007	.005	.003	
7.0	.057	.037	.024	.049	.032	.021	.034	.023	.015	.020	.013	.009	.006	.004	.003	
8.0	.054	.034	.020	.046	.029	.018	.032	.021	.013	.019	.012	.008	.006	.004	.002	
9.0	.051	.031	.018	.044	.027	.016	.030	.019	.011	.018	.011	.007	.006	.004	.002	
10.0	.048	.029	.016	.041	.025	.014	.029	.017	.010	.017	.010	.006	.005	.003	.002	

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3℃
Operators:ZT
Test Date:2024-01-20

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:10.722m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

NAME: BL7069-C30-3-2050-NS					TYPE:					WEIGHT:				
SPEC.:					DIM.:					SERIAL No.:				
MFR.:					SUR.:					Shielding Angle:				
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3				
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3				
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2				
Room dimensions					Viewed crosswise					Viewed endwise				
x = 2H y = 2H					8.4	9.2	8.6	9.4	9.5	-0.6	0.2	-0.4	0.4	0.6
3H					8.5	9.2	8.7	9.4	9.6	-0.3	0.5	-0.1	0.7	0.9
4H					8.4	9.2	8.7	9.4	9.6	-0.2	0.6	0.1	0.8	1.0
6H					8.4	9.1	8.7	9.3	9.5	-0.0	0.7	0.3	0.9	1.1
8H					8.3	9.0	8.6	9.2	9.5	0.1	0.7	0.4	1.0	1.2
12H					8.3	8.9	8.6	9.2	9.5	0.1	0.8	0.5	1.1	1.3
4H 2H					8.1	8.9	8.4	9.1	9.3	-0.3	0.4	-0.1	0.6	0.8
3H					8.2	8.9	8.6	9.1	9.4	0.0	0.7	0.4	1.0	1.2
4H					8.2	8.8	8.6	9.1	9.4	0.2	0.8	0.6	1.1	1.4
6H					8.2	8.7	8.5	9.0	9.3	0.5	1.0	0.8	1.3	1.7
8H					8.1	8.6	8.5	9.0	9.3	0.6	1.1	1.0	1.4	1.8
12H					8.1	8.6	8.5	8.9	9.3	0.8	1.2	1.2	1.6	2.0
8H 4H					8.1	8.6	8.5	8.9	9.3	0.3	0.8	0.7	1.1	1.5
6H					8.0	8.4	8.5	8.8	9.2	0.6	1.0	1.0	1.4	1.8
8H					8.0	8.4	8.5	8.8	9.2	0.8	1.2	1.3	1.6	2.0
12H					8.0	8.3	8.5	8.8	9.2	1.1	1.4	1.5	1.8	2.3
12H 4H					8.0	8.5	8.4	8.8	9.2	0.3	0.7	0.7	1.1	1.5
6H					8.0	8.3	8.4	8.7	9.2	0.6	1.0	1.1	1.4	1.8
8H					8.0	8.3	8.4	8.7	9.2	0.9	1.2	1.4	1.6	2.1
Variations with the observer position at spacings(CIE Pub.117):														
S = 1.0H					+ 4.8 / - 5.1					+ 1.0 / - 1.3				
1.5H					+ 6.3 / - 6.1					+ 1.2 / - 1.1				
2.0H					+ 7.0 / - 5.6					+ 1.7 / - 1.2				

CIE Pub.117, 4000 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 4.8)
Area: 0.1 m2

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3℃
Operators:ZT
Test Date:2024-01-20

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:10.722m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

NAME: BL7069-C30-3-2050-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

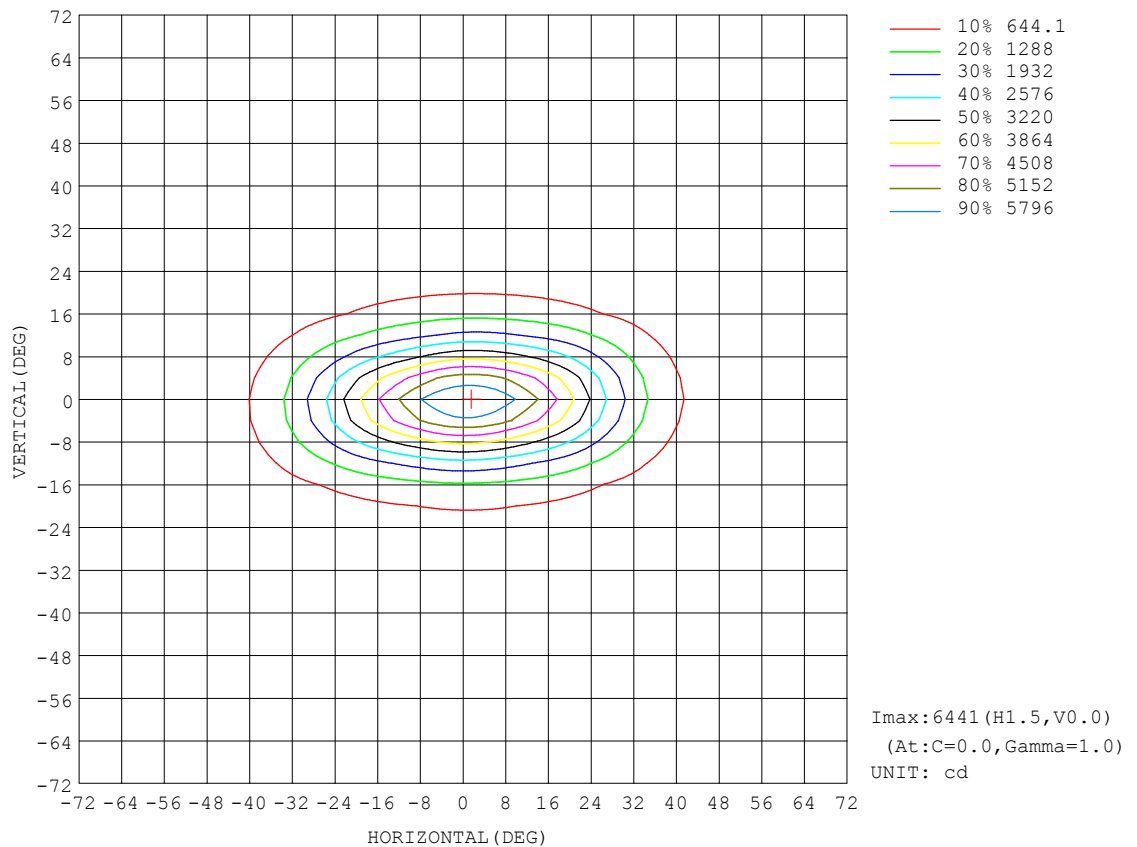
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	47	43	41	46	43	41	46	43	41	39
0.80	51	47	45	50	47	45	50	47	45	43
1.00	53	50	48	53	50	48	52	50	48	45
1.25	55	52	51	55	52	50	54	52	50	48
1.50	57	54	52	56	54	52	55	53	52	49
2.00	58	56	54	58	56	54	56	54	53	50
2.50	59	57	56	58	57	55	57	55	54	51
3.00	60	58	57	59	58	56	57	56	55	52
4.00	61	60	59	60	59	58	58	57	56	53
5.00	62	61	60	61	60	59	59	58	57	53
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended				SHRNOM = 1.25		

H(β) Range: -90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators: ZT
Test Date: 2024-01-20

V(β) Range: -85 - 85DEG
V(β) Interval: 2.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity: 65.0%
Test Distance: 10.722m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

NAME: BL7069-C30-3-2050-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

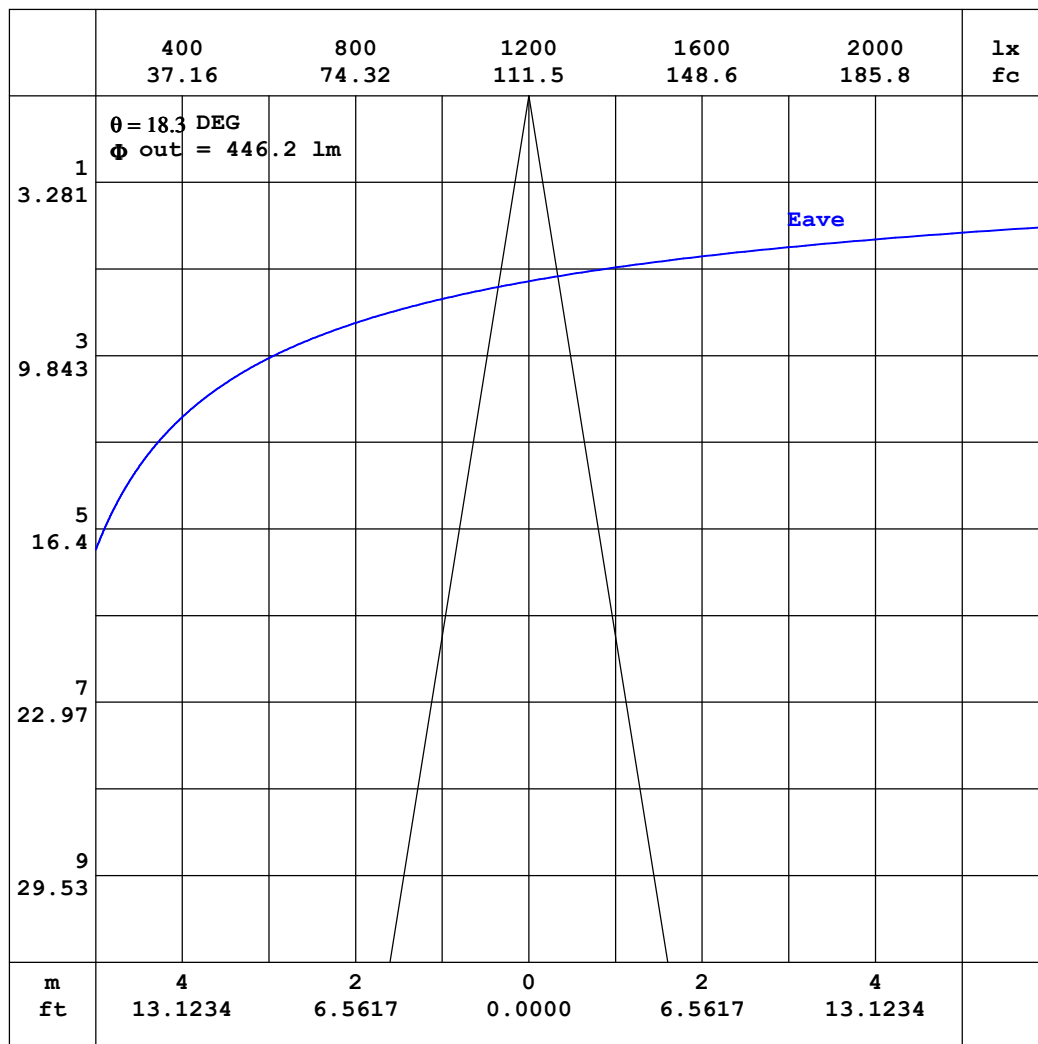


H(β) Range: -90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators: ZT
Test Date: 2024-01-20

V(B) Range: -85 - 85DEG
V(B) Interval: 2.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity: 65.0%
Test Distance: 10.722m [K=1.0000]
Remarks:

AAI CURVES

NAME: BL7069-C30-3-2050-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



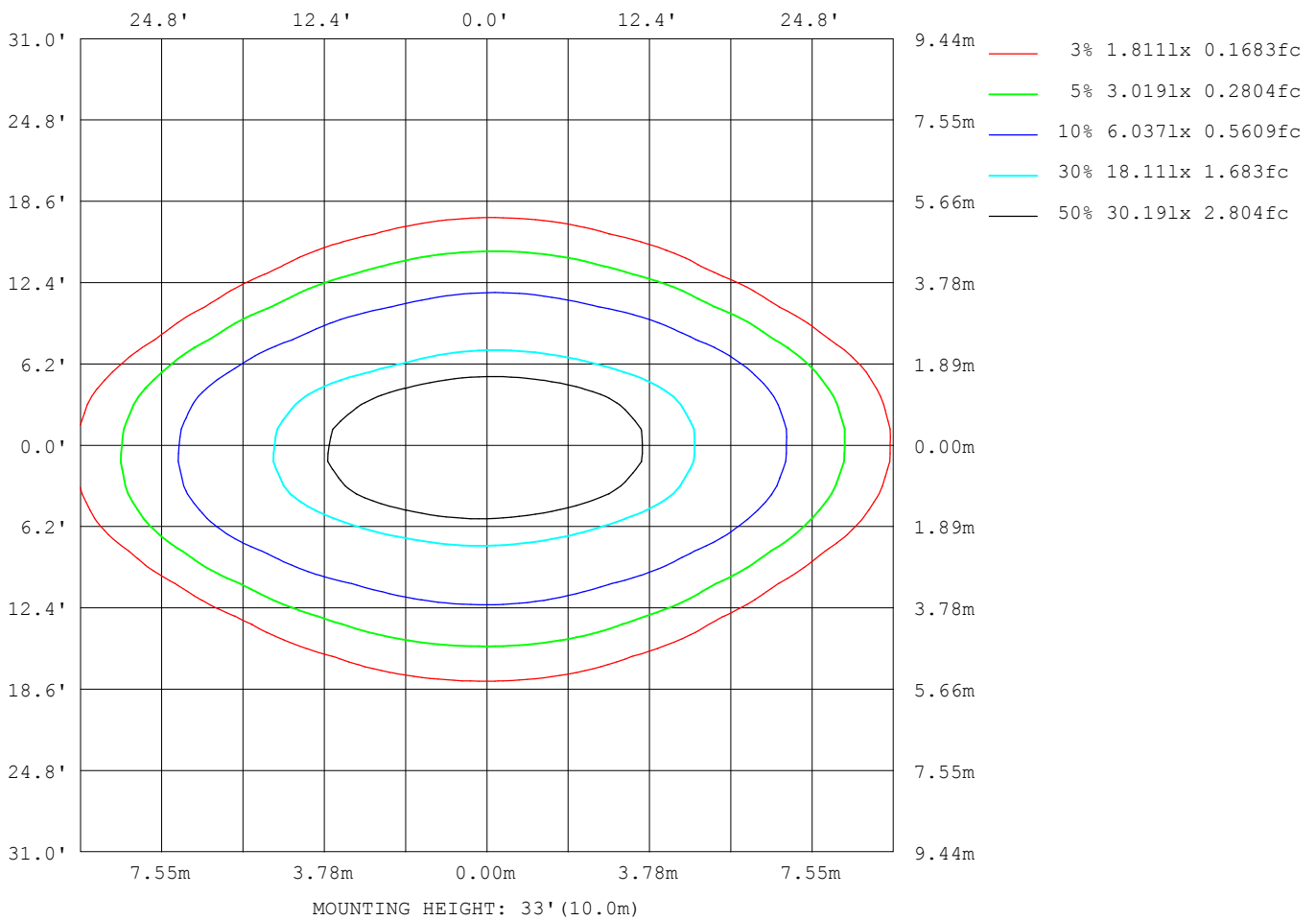
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range: -90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators: ZT
Test Date: 2024-01-20

V(B) Range: -85 - 85DEG
V(B) Interval: 2.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity: 65.0%
Test Distance: 10.722m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

NAME: BL7069-C30-3-2050-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:ZT
Test Date:2024-01-20

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:10.722m [K=1.0000]
Remarks:

LED Avg.L Report

NAME: BL7069-C30-3-2050-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

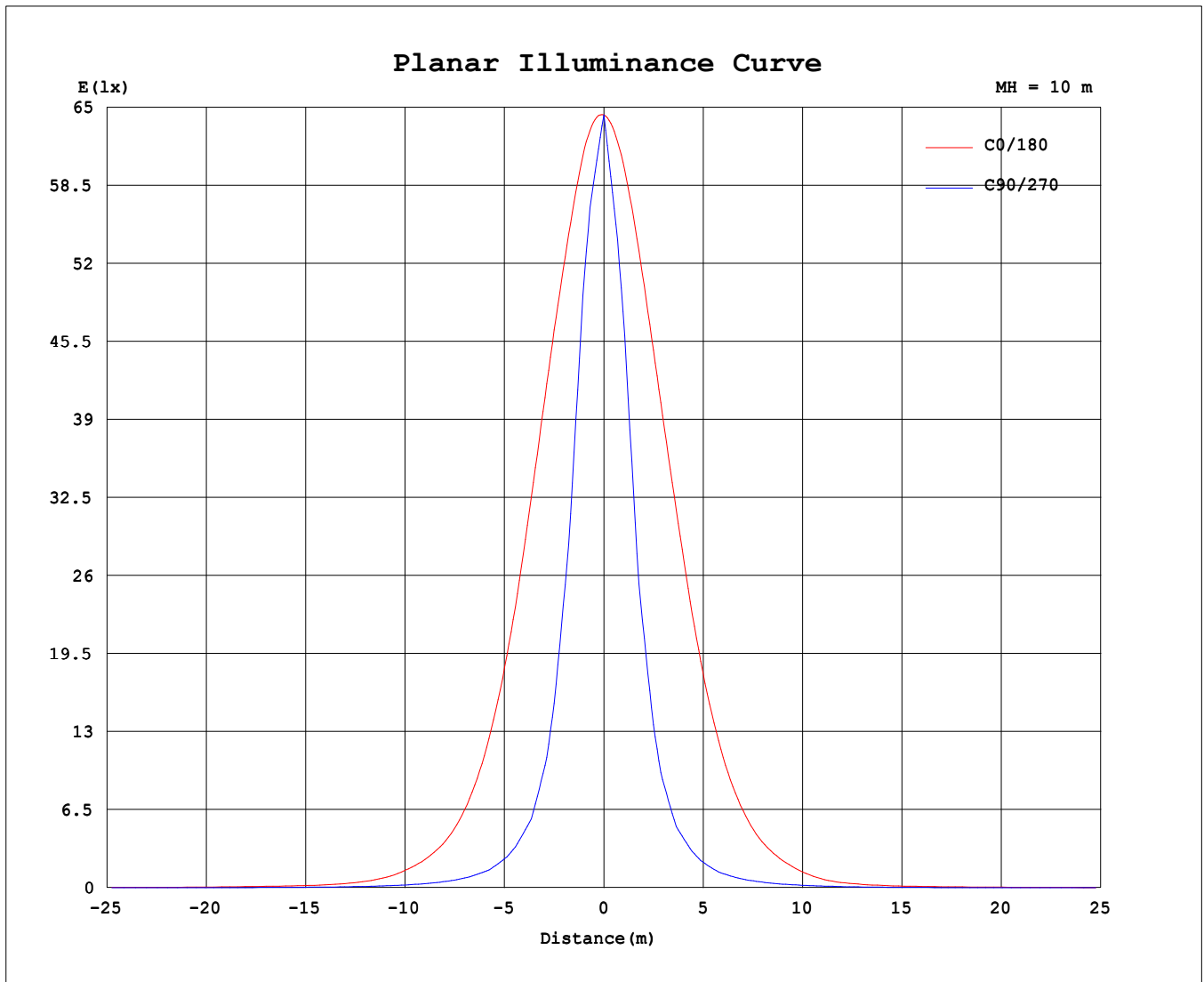
AvgL	cd/m2
L_0~180 (65) av	1315
L_0~180 (75) av	601
L_0~180 (85) av	900
L_90~270 (65) av	291
L_90~270 (75) av	196
L_90~270 (85) av	170
L_45 (65) av	328
L_45 (75) av	196
L_45 (85) av	332

Standard: GB/T 29293-2012

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3℃
Operators:ZT
Test Date:2024-01-20

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:10.722m [K=1.0000]
Remarks:

Planar Illuminance Curve



H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:ZT
Test Date:2024-01-20

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:10.722m [K=1.0000]
Remarks:

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:10.722m [K=1.0000]
Remarks:

NAME: BL7069-C30-3-2050-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

UNIT: cd

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
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Humidity:65.0%
Test Distance:10.722m [K=1.0000]
Remarks:

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